



LabMASTER-aw



A professional laboratory instrument for a very precise measurement of aw values (water activity) in foodstuff, drugs, cosmetics etc.. The temp. of the measurement chamber may be set in the range from 0°C to 50°C and kept consistently with an accuracy of +/-0.2K.

This instrument runs the most used aw measuring technology, the electrolytic resistive principle. The advantages are appreciated by all users around the world.

Measuring range aw	:	0.03 ... 1.00aw
Measurement chamber temperature	:	selectable 0 ... 50°C, +/- 0.2K
Sensor type	:	electrolytic resistive measurement cell CM-2
Accuracy	:	+/- 0.003aw / 0.2°C at 25°C when the system is calibrated at min. 6 points Repeatability +/- 0.002aw
Communication	:	RS-232 interface, PC software "Novalog MC"



LabMASTER-aw

A synonym for high-precision, flexibility, versatility and measurement speed

Well-proven laboratory instrument for reproducible, precise aw measurements under accurately controlled temperature conditions for all types of foodstuffs, cosmetics as well as dry pharmaceutical materials. The **LabMASTER-aw** is the only instrument that enables measurements under precisely controlled chamber temperature conditions, selectable in the following range: 0°C to 50°C, with an accuracy of 0.2K.

The device and its sensor are very robust and have an excellent long-term stability. The Novasina electrolytic resistive sensor delivers essentially hysteresis-free measurements. The implemented user management systems allows a simple and intuitive operation. The system is available in 3 different versions "**BASIC**" (single user), "**STANDARD**" (multi user) and "**ADVANCED**" (multi user and multi channel). This improves considerably the cost efficiency.

The large, illuminated graphic LC display gives a clear overview. The menu software is simple and intuitive.

For a connection to a printer or a PC, a RS-232 or USB interface is built in the device. The visualisation PC-Software NOVALOG MC for Win9x/2000/NT/XP is included in the delivery (except for the "BASIC" version). A recorder can be connected to the 0...10 volt analogue output.

Examples of aw measurement samples:

- All forms of pastry and baked goods
- Meat and sausages
- Cheese
- Fruit concentrates
- Dried foodstuffs
- Cosmetics
- Pharmaceuticals

LabMASTER-aw instrument:

Surface area: width 26, depth 44 cm
Weight : 9.8 kg
Mains supply: 90V...260V, 50/60Hz,
wide range power supply

Humidity sensor:

Electrolyte measurement cell CM-2
Range : 0.03...1.00aw
in the range of
0...50°C.
Repeatability : +/- 0.002aw
Accuracy : +/- 0.003aw at 25°C
when fully calibrated
Resolution : 0.001aw / 0.1°C

Temperature sensor:

Precise NTC resistor
Range : -20...80°C
Repeatability : +/- 0.1°C
Accuracy : +/- 0.3°C
Resolution : 0.1°C

Humidity standards

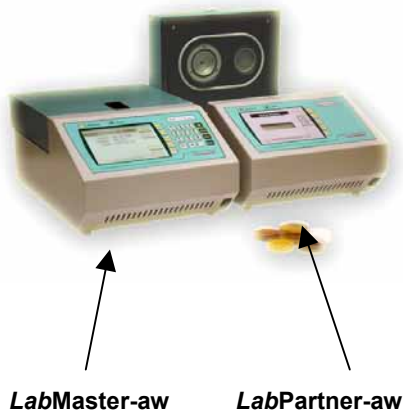
Salt tablets SAL-T:

Saturated pure salt solutions based on national standards are recommended:

see catalogue accessories

Multi Channel System

LabMaster / LabPartner



This professional laboratory instrument system allows to run from 2 to a maximum of 10 aw (water activity) measurement devices simultaneously for measuring the aw values in foodstuff, drugs and cosmetics:

1 LabMASTER-aw "ADVANCED" runs from 1 to 9 LabPARTNER-aw units.

The temperature of each chamber can be set in the range from 0°C to 50°C.

The "ADVANCED" instrument version completes ideally the LabMASTER-aw "BASIC" and "STANDARD". It allows an extension at any time and offer an outstanding cost efficiency.

Measuring range aw	: 0.03 ... 1.00 aw
Measurement chamber temperature	: selectable 0 ... 50°C +/- 0.2K
Sensor type	: electrolyte resistive measurement cell CM-2
Accuracy	: +/- 0.003aw, 0.2°C at 2°C when the system is calibrated at min. 6 points
Repeatability	: +/- 0.002aw
Communication per channel	: RS-232 or USB interface, PC-Software Novalog MC for single channel monitoring



Multi Channel System (LabPartner-aw)

Highest flexibility and cost efficiency at any time

The LabMASTER-aw series is a new laboratory instrument generation with the flexibility to add single channels, depending on your needs. Each channel provides reproducible and accurate aw value measurements in various types of samples. This makes the system very flexible and versatile with the possibility of extension at any time.

LabMASTER/LabPARTNER-aw sensors are very robust, excel in long-term stability characteristics and have been specifically developed for continuous operation. The unique properties of the electrolytic resistive sensors with their lack of hysteresis through the complete system yield very exact and reproducible measurements.

All measured values on each channel are displayed on a large, clearly arranged illuminated LC-Display. Each channel can be configured individually and optimised using a menu-driven procedure. The LabMASTER-aw "ADVANCED" includes a RS-232 or USB interface for the communication with a PC. The single channel software Novalog MC is included in the delivery of this device.

Examples of aw measurement samples:

- All forms of pastry and baked goods
- Meat and sausages, cheese
- Dried foodstuff, fruit concentrates
- Cosmetics, natural healing products
- Pharmaceuticals (powders, tablets, ointments)

Multi Channel System:

LabMASTER-aw instrument:

Mains supply: 90V...260V, 50/60Hz,
wide range power supply
LabPartner is powered by
the LabMaster

LabMASTER / LabPARTNER-aw:

Surface area: width 26, depth 44 cm
Weight : 9.8 kg

Humidity sensor:

Electrolyte measurement cell CM-2
Range : 0.03...1.00aw
in the range of
0...50°C.
Repeatability : +/- 0.002aw
Accuracy : +/- 0.003aw at 25°C
when fully calibrated
Resolution : 0.001aw / 0.1°C

Temperature sensor:

Precise NTC resistor
Range : -20...80°C
Repeatability : +/- 0.1°C
Accuracy : +/- 0.3°C
Resolution : 0.1°C

Humidity standards

Saturated pure salt solutions based on national standards are recommended:
see catalogue accessories



LabMASTER-aw



111 9971 LabMASTER-aw
"BASIC"

LabMASTER-aw "BASIC"

Robust laboratory precision measurement instrument with temperature controlled measurement chamber. With integrated pre-conditioning chamber. Further functions:

- Stability parameter, time & date displayed on LCD screen
- Memory for the last 10 aW stable value for each data file
- Stability val time can be defined directly before measurement
- Setting of measurement alarm limits
- Calibration reminder function

BASIC version: single-measurement & single-USER

Attention: no power cable included. Please order it separately.

Instrument:

- Sensor CM-2
- 6 humidity standards SAL-T: 11, 33, 58, 75, 84 and 97% rh (incl. factory calibration certificate)
- 50 sample dishes ePW
- Operating instructions

Weight: 9.800 kgs
Ground surface: 26 x 44 cm (WxL)



standard

111 9972 LabMASTER-aw
"STANDARD"

LabMASTER-aw "STANDARD"

Robust laboratory precision measurement instrument with temperature controlled measurement chamber. With integrated pre-conditioning chamber. Further functions:

- Stability parameter, time & date displayed on LCD screen
- Memory for the last 10 aW stable value for each data file
- Stability val time can be defined directly before measurement
- Setting of measurement alarm limits
- Calibration reminder function
- Graphic display of aW measurement curve on LCD screen

STANDARD version: single-measurement & multi-USER

Attention: no power cable included. Please order it separately.

Instrument:

- Sensor CM-2
- 6 humidity standards SAL-T: 11, 33, 58, 75, 84 and 97% rh (incl. factory calibration certificate)
- 50 sample dishes ePW
- RS232 interface, PC cable 1.8m D-Sub 9M/9F, USB port & cable
- NovalogMC PC visual. software for Win9x/2000/NT/XP
- Operating instructions

Weight: 9.800 kgs
Ground surface: 26 x 44 cm (WxL)

Multi Channel System



111 9973 LabMASTER-aw
"ADVANCED"

LabMASTER-aw "ADVANCED"

Robust laboratory precision measurement instrument with temperature controlled measurement chamber. With integrated pre-conditioning chamber. Further functions:

- Stability parameter, time & date displayed on LCD screen
- Memory for the last 10 aW stable value for each data file
- Stability val time can be defined directly before measurement
- Setting of measurement alarm limits
- Calibration reminder function
- Graphic display of aW measurement curve on LCD screen

ADVANCED version: multi-measurement & multi-USER

Attention: no power cable included. Please order it separately.

Instrument:

- Sensor CM-2
- 6 humidity standards SAL-T: 11, 33, 58, 75, 84 and 97% rh (incl. factory calibration certificate)
- 50 sample dishes ePW
- RS232 interface, PC cable 1.8m D-Sub 9M/9F, USB port and cable
- NovalogMC PC visual. software for Win9x/2000/NT/XP
- Operating instructions

- certificate of the 6 point factory calibration 11-33-58-75-84-97%.
Weight: 9.800 kgs
Ground surface: 26 x 44 cm (WxL)



111 9974 LabPARTNER-aw

Additional channels:

LabPARTNER-aw

A robust laboratory instrument with highly-sensitive humidity and temperature sensors, temperature controlled measurement chamber. With integrated pre-conditioning chamber.

A power supply cable and a communication cable are provided to connect this instrument to the LabMASTER-aw or to another LabPARTNER-aw.

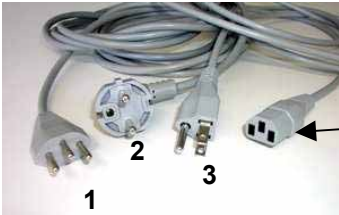
Instrument:

- Sensor CM-2
- 50 sample dishes ePW
- Operating instructions
- certificate of the 6 point factory calibration 11-33-58-75-84-97%.

Weight: 9.800 kgs
Ground surface: 26 x 44 cm (WxL)

Accessories for LabMASTER-aw

Accessories for a LabMASTER-aw



- [110 8568](#) Power cable CH : 1
[110 8304](#) EU/Schuko : 2
[111 1748](#) Japan and USA : 3

Mains power cables

For connecting a LabMASTER-aw

Configured with the standard instrument connector at one end and the locally required power plug at the other.

Please order with the country code and plug type.

Power cable:

Cable length : 1.5 m

For local power systems with appropriate plugs.

Weight: 260 g

Accessories for LabMASTER-aw and LabPARTNER-aw



- [111 9979](#) SI Set Master

SI, sorption isotherm set

for the LabMASTER-aw and LabPARTNER-aw

This accessory, together with the Novasina humidity standards SAL-T, makes it possible to easily determine several points of a sorption isotherm. Incl. a plastic case for transportation.

In addition, a precision balance and an oven are required.

SI-Set MASTER/PARTNER complete with:

- 1 large cup insert
- 1 substance basket
- 1 weighing glass
- 1 pair of tongs



- [111 1001](#) -> eVC-21
[111 1003](#) -> eVC-26
[111 7212](#) -> Redox
[111 0995](#) -> eVALC
[111 0997](#) -> eVMT-2
[111 0999](#) -> eVMS-2

Cell protection filters

for all LabMASTER-aw and LabPARTNER-aw.

A number of filters is available to protect the measurement cell from aggressive vapours or abrasion.

-> *Please consult the appropriate datasheets*

Filters:

- eVC-21 (10 pieces)
- eVC-26 (10 pieces)
- Redox (1 piece)
- eVALC (2 pieces)
- eVMT-2 (5 pieces)
- eVMS-2 (5 pieces)

Weight: 30 g



- [111 0601](#) ePW sample dishes

Sample dishes ePW

For all LabMASTER-aw and LabPARTNER-aw

Box with 100 sample cups.

These cups are for all Novasina aw instruments. They are disposable, intended for a single use.

A box contains:

100 sample cups ePW

Material : Polypropylene

Dimensions : 40mm diameter
x 12mm depth